DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0013739

OFFICE Design Policy & Support

Camden County

GDOT District 5 - Jesup

DATE 8/7/2018

SR 25 Bridge Replacement @ Little

Waverly Creek & Waverly Creek

FROM

for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering

Joe Carpenter, Director of P3

Albert Shelby, Director of Program Delivery

Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator

Kim Nesbitt, Program Delivery Administrator

Bobby Hilliard, Program Control Administrator

Paul Tanner, State Transportation Planning Administrator

Eric Duff, State Environmental Administrator

Bill DuVall, State Bridge Engineer

Andrew Heath, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Erik Rohde, State Project Review Engineer

Monica Flournoy, State Materials Engineer

Patrick Allen, State Utilities Engineer

Benny Walden, Statewide Location Bureau Chief

Brad Saxon, District Engineer

Troy Pittman, District Preconstruction Engineer

Dallory Rozier, District Utilities Engineer

Aghdas Ghazi, Project Manager

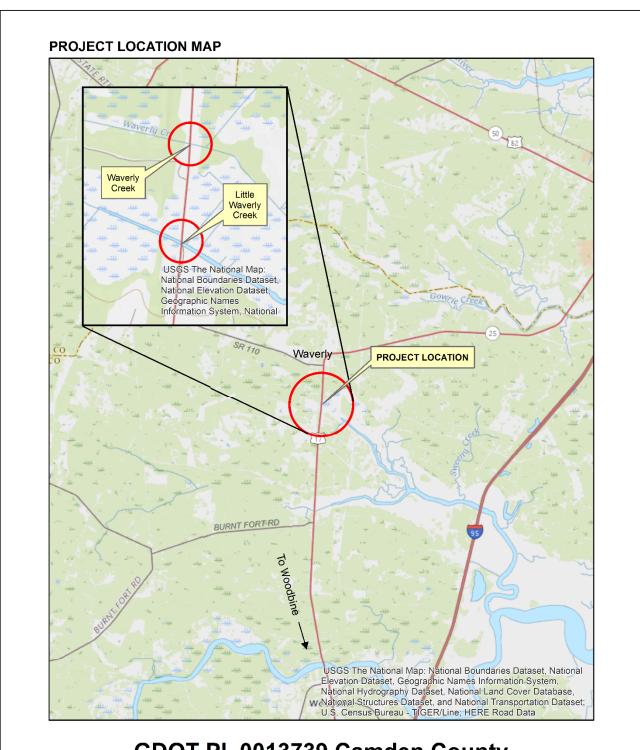
BOARD MEMBER - 1st Congressional District

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type:	Bridge Replacement	P.I. Number:	0013739
GDOT District:	5	County:	Camden
Federal Route Number:	US17	State Route Number:	SR25
	Project Number:	N/A	
	cing the existing bridges on S	R 25 over Little Waverly C	reek and Waverly Creek
near the city of Woodbine.			
Submitted for approval:			
outstated for approval.			0
Barge Design Solutions, Inc.			5-22-20/8 Date
barge Design Solutions, Inc.	Kumberly W.	Y Jasbett	5/31/18
State Program Delivery Admi	nistrator		Date
Ashell & St	IN SHP		5/22/2018
GDOT Project Manager		A STATE OF THE STA	Date
Recommendation for appro		•	(1)
	ERIC DUFF* EKH	0	6/4/2018
State Environmental Adminis	trator		Date ','
	CHRISTINA BARRY*/E	EKP	6/4/2018 Date 6/18/2018
State Traffic Engineer	, ,		Date
	BILL DUVALL* EKF		6/25/2018 Date 6/15/2018
State Bridge Engineer	- */		Date /
	PRAD SAXON* EKP		6/15/2018
District Engineer	/		Date /
	ADS of the specified and recommendate interesting the contract of the contract		The purposes a mediant frequency and margerial substitution and mediant account to the master and market frequency.
	oject is consistent with the MP Transportation Plan (LRTP).	O adopted Regional Trans	sportation Plan
⊠ Rural Area: This pro	ject is consistent with the goa	ls outlined in the Statewide	e Transportation Plan
	cluded in the State Transporta		
	INDY VAN DUKE*/E	EKD	6/7/2018
State Transportation Planning	ng Administrator		Date
Approval:			
Concur: Vial	RHOL		7130118
GDOT Directo	or of Engineering	annementer de training de la septimient de de service de la service de l	Date
Approve:	0 001 2 7		A1118
GDOT Chief	Engineer B. Pw		Date
ODO I OHIGH	LISH IOOI		

X- RECOMMENDATION ON FILE

PROJECT LOCATION MAP



GDOT Pl. 0013739 Camden County SR25 @ Little Waverly & Waverly Creek N of Woodbine



P.I. Number: 0013739

0 1 2 4 6 Miles

PLANNING & BACKGROUND DATA

Project Justification Statement:

This project consists of two bridges on SR 25 in Camden County that were built in 1955. Both structures were designed using an HS-20 vehicle, which is below current design standards. The first structure is located on SR 25 over Little Waverly Creek, Structure ID 039-0009-0. The second structure is located on SR 25 over Waverly Creek, Structure ID 039-0010-0. Both of these bridges consist of three spans of reinforced concrete deck girders (RCDG's) on concrete caps with concrete piles. The overall condition of both bridges would be classified as satisfactory. The decks and superstructures are in good condition. The substructures are in fair condition, but they are classified as scour critical. The substructures show signs of concrete deterioration and cracking in all piles. Due to the structural integrity of the bridges pertaining to their design vehicles, the scour critical rating of the substructures, and the deterioration of their concrete piles, replacement of these bridges is recommended. This statement was prepared by the GDOT Office of Bridge Design.

P.I. Number: 0013739

Existing conditions: State Route (SR) 25/Ocean Highway consists of two 12-foot lanes with rural (grass) shoulders with the bridge structures over Little Waverly Creek (Structure ID 039-0009-0) & Waverly Creek (Structure ID 039-0010-0) that were both built in 1955. There are existing overhead and underground utilities present.

Other projects in the area: PI# 0013	738 SR 25 @ W	niteoak Creek 5 MI N	of Woodbine.
MPO: N/A - not in an MPO		TIP#: N/A	
Congressional District(s): 1			
Federal Oversight: □PoDI	⊠Exempt	□State Funded	□Other
Projected Traffic: AADT Current Year (2018): 2,325 Ope Traffic Projections Performed by: BAR Date approved by the GDOT Office of Functional Classification (Mainline)	n Year (2022): : RGE Design Solu Planning: 4/03/	- <u>2,425</u> Design ` ions 2018	Year (2042): <u>2,950</u>
Complete Streets - Bicycle, Pedestr Warrants met: ⊠None	rian, and/or Trar □Bicycle	sit Standards Warra □Pedestrian	nts: □Transit
Pavement Evaluation and Recommo		10 571	
Initial Pavement Evaluation Summar			□Yes
Feasible Pavement Alternatives:	$\boxtimes HM$	A □PCC	□HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: The proposed project would construct replacement bridges for the existing structurally deficient bridges over Little Waverly Creek and over Waverly Creek. The preferred alternative proposes to detour traffic off-site during construction and replace the bridges in their existing locations. The project typical section consists of two 12-foot lanes with a 10-foot shoulder. The approximate project length is 0.51-miles and is located in Camden County with a design speed of 55 mph.

Major Structures:

Structure ID	Existing	Proposed
039-0009-0	The structure is a three-span bridge with a maximum span length of 33-feet for a total length of 99-feet. The concrete slab is 6-inches deep by 34.2-feet wide out-to-out. The clear roadway distance is 27.7-feet from curb-to-curb.	The proposed structure will be approximately 100-feet long by 43.25-feet wide (two 12-foot lanes, with an 8-foot shoulder, and a 1.625-foot barrier).
039-0010-0	The structure is a three-span bridge with a maximum span length of 33-feet for a total length of 99-feet. The concrete slab is 6-inches deep by 34-feet wide out-to-out. The clear roadway distance is 27.8-feet from curb-to-curb.	The proposed structure will be approximately 100-feet long by 43.25-feet wide (two 12-foot lanes, with an 8-foot shoulder, and a 1.625-foot barrier).

P.I. Number: 0013739

Accelerated Bridge Construction (ABC) techniques anticipated: \square No \square Yes ABC techniques are not recommended for this project because the environmental impacts would be similar, or possibly greater, than standard construction techniques.

Mainline Design Features: SR25

Feature	Existing	Policy	Proposed
Typical Section			
- Number of Lanes	2		2
- Lane Width(s)	12-ft	11-ft to 12-ft	12-ft
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width	Varies 2-ft to	10-ft	10-ft
	10-ft		(4-ft paved)
- Outside Shoulder Slope	Varies 5% to	6%	6%
	30%		
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed	55mph		55mph
Design Speed	55 mph	55 mph	55mph
Minimum Horizontal Curve Radius	N/A	1060-ft	N/A
Maximum Superelevation Rate	N/A	6%	6%
Maximum Grade	4% - 5%	4% - 5% max	4% - 5%
Access Control	Permit	Permit	Permit
Design Vehicle	Undeterminded		WB-62
Pavement Type	HMA		HMA

"According to current GDO1 de	ssign policy if app	Jiicabie		
Is the project located on a Ni	HS roadway?	⊠ No	☐ Yes	
Design Exceptions/Design Variances to GDOT S			A Controlling Criteria anticipated: None	lone

Off-site Detours Antici	pated:	□ No	☐ Undetermi	ned	⊠ Yes
Transportation Manag If Yes: Project class TMP Components A	ified as:		□ No on-Significant C	⊠ Yes	
INTERCHANGES	S AND INTI	ERSECTIO	ONS		
Major Interchanges/Int	tersections: N/	Α			
Intersection Control E	valuation (ICE)	Required:	⊠ No	☐ Yes	
Roundabout Peer Rev	iew Required:	⊠ No	☐ Yes	☐ Comp	leted – Date:
UTILITY AND PE	ROPERTY				
Railroad Involvement:	N/A				
Utility Involvements: A	Atlanta Gas Ligh	nt, Bellsouth (A	T&T), TDS, GA	Power-Dis	tribution, Alma
SUE Required:	□ No	⊠Yes			
Public Interest Determ	ination Policy a	and Procedure	e recommende	d? ⊠ No	□ Yes
Right-of-Way: Required Right-of-Way a Easements anticipated:	•	Varies 150-20 ☐ None ☑ Temporary	_ ⊠ Ye	es	: <u>Varies 150-200</u> ft. □ Undetermined y □ Other
	Anticipated to Displacements	anticipated:	impacted parcel Businesse Residence Othe al Displacement	es: N/A es: N/A er: N/A	
Impacts to USACE pro Impact to surrounding s Responsible Mitigation Permits" section below f	alt marsh is like or In-Lieu Fee	ly, therefore ev for mitigation	valuation is unde	erway to de	
CONTEXT SENS	SITIVE SOL	UTIONS			
Issues of Concern: N	/A				
Context Sensitive Solu	utions Propose	d: N/A			
ENVIRONMENT	AL AND PE	RMITS			
Anticipated Environme NEPA: GEPA: Type			EA-FONSI None		

SR25 At Little Waverly & Waverly Creek – Page 5

County: Camden

P.I. Number: 0013739

SR25 At Little Waverly & Waverly Creek – Page 6 P.I. Number: 0013739 County: Camden

Level of	f Enviror	ımental	Anal	lysis:
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	environmental considerations noted below are environmental analysis and are subject to revision delineation, and agency concurrence.		•	, <u> </u>		
	The environmental considerations noted below are bidentification, delineation, and agency concurrence.	ased or	n the cor	npletion of	resource	
	ter Quality Requirements: 4 Compliance – Is the project located in an MS4 a	rea?	⊠ No		□ Yes	
ls N	Ion-MS4 water quality mitigation anticipated?	⊠ No		☐ Yes		
	vironmental Permits, Variances, Commitments, a fer variance and Section 404 permit from USACE	and Co	ordinati	on anticip	oated: Potential	stream
Air	Quality:					
ls th	ne project located in an Ozone Non-attainment area?		\boxtimes No		☐ Yes	
Car	bon Monoxide hotspot analysis required?		⊠ No		☐ Yes	

NEPA/GEPA Comments & Information:

NEPA: The Georgia Coast Rail Trail, a 6.25-mile public recreational trail, runs directly parallel to the bridge approximately 400-500 feet to the west. The proposed project is located in a Census Tract with 79.8% of the population designated as white, non-Hispanic and 8% below the poverty threshold, so EJ will likely not be a focus if further research confirms the desktop survey.

Ecology: Based on field surveys nine wetlands (including salt marsh), three perennial stream (Waverly Creek, Little Waverly Creek, and unnamed tributary) and one open water are located within the project limits.

The US Fish and Wildlife Service IPaC lists the West Indian manatee (Trichechus manatus), piping plover (Charadrius melodus), red knot (Calidris canutus rufa), red-cockaded woodpecker (Picoides borealis), wood stork (Mycteria americana), eastern indigo snake (Drymarchon corais couperi), gopher tortoise (Gopherus Polyphemus), green sea turtle (Chelonia mydas), leatherback sea turtle (Dermochelys coriacea), loggerhead sea turtle (Caretta caretta), and the striped newt (Notophthalmus perstriatus). Consultation with USFWS and Georgia Department of Natural Resources (DNR) revealed the project area as habitat for the bald eagle (Haliaeetus leucocephalus), the osprey (Pandion haliaetus), and MacGillivray's seaside sparrow (Ammodramus maritimus macgillivraii), all species of concern. DNR noted the record of a nesting bald eagle and records of marine mammals within 3 miles of the proposed project. Additionally, USFWS noted three wood stork rookeries within 12 miles of the project APE.

No species or habitat were identified for listed species from USFWS or GA DNR. However, hooded pitcher plant (Sarracenia minor) were identified within the project limits. The plant is a state listed. A protected species survey will be conducted to identify additional species presence.

The presence and likely impact to coastal salt marsh would require development of a Permittee Responsible Mitigation (PRM) Plan. Because of the lack of available salt marsh mitigation banks and credits the PRM is required to identify and develop a mitigation site for impacts. The PRM would be developed with the permit submitted to the US Army Corps of Engineers.

Archaeology: Fieldwork has not yet been completed. Based on a desktop survey including the Georgia Archaeological Site Files, there are no previously identified archaeological sites located within a 1-kilometer radius of the proposed project area.

History: One potentially eligible resource was identified along the corridor; SR 17/US 25 (i.e. Coastal Highway). The eligibility has not been concurred with by the SHPO. The bridges to be replaced are not listed as eligible on the Georgia Historic Bridge Survey, and are not considered a contributing feature to the Coastal Highway. Replacement of the bridges is not anticipated to result in an Individual Section 4(f) evaluation.

SR25 At Little Waverly & Waverly Creek – Page 7

County: Camden

Air Quality: Based on project type and location a qualitative air assessment is anticipated.

Noise Effects: Based on project type and location a Type III Noise Screening Analysis is anticipated.

Public Involvement: Based on constructability and environmental mitigation concerns, an off-site detour is preferred, requiring a public involvement open house.

P.I. Number: 0013739

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Is Federal Aviation Administration (FAA) coordination anticipated?
☐ Yes

Project Meetings: Concept Team Meeting occurred on May 7, 2018. The PIOH/PDOH is planned to occur by mid-January 2019.

Other coordination to date: N/A

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Barge Design Solutions, Inc.
Design	Barge Design Solutions, Inc.
Right-of-Way Acquisition	GDOT – Office of Right of Way
Utility Coordination (Preconstruction)	GDOT- Office of Utilities
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT – Office of Construction Bidding
	Admin.
Construction Supervision	GDOT – District 5 Construction
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, &	Edwards-Pitman
Permits	
Environmental Mitigation	GDOT – Environmental Services
Construction Inspection & Materials Testing	GDOT – Materials and Research Office

Project Cost Estimate and Funding Responsibilities:

	PE Ac	tivities	ROW	Reimbursable Utilities	CST*	Total Cost
	PE Funding	Section 404 Mitigation				
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	
\$ Amount	\$700,000.00	\$329,560.00	TBD**	\$40,000.00	\$4,406,295.88	\$5,475,855.88
Date of Estimate	2017	7/12/2018	N/A	5/08/2018	7/09/2018	

^{*} CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

^{**} Programming level cost is \$300,000. ROW estimate requested on 3/07/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

SR25 At Little Waverly & Waverly Creek - Page 8

County: Camden

ALTERNATIVES DISCUSSION

Preferred Alternative: Replacement in Existing Location with an Off-Site Detour					
Estimated Property Impacts: 3 parcels Estimated Total Cost: \$5,475,855.88					
Estimated ROW Cost: TBD** Estimated CST Time: 24 months					

P.I. Number: 0013739

Rationale: This alternative would replace the existing bridges over Little Waverly Creek and Waverly Creek in-place while utilizing I-95 as an off-site detour during construction. The off-site detour gross length required for this alternative would be approximately 31-miles from bridge end to bridge end. This alternative provides for the least amount of impact to environmental resources which includes stream, wetland, salt marsh, and protected species. This alternative would impact two parcels. The estimated duration of the detour will be approximately 12 months.

^{**} Programming level cost is \$300,000. ROW estimate requested on 3/07/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

Alternative 2: Replacement in Existing Location with an On-Site Detour						
Estimated Property Impacts:	Estimated Property Impacts: 4 parcels Estimated Total Cost: \$9,237,939.83***					
Estimated ROW Cost: TBD** Estimated CST Time: 24 months						

Rationale: This alternative would close the existing bridges to traffic and provide an on-site detour during construction. The on-site detour would temporarily shift traffic west of the existing alignment and utilize temporary bridges downstream of the existing bridges. An on-site detour will increase additional environmental impacts such as salt marsh, stream, wetland, and protected species impacts which will increase 404 mitigation costs. This alternative would impact four parcels. This alternative is not recommended.

^{***} This figure does not include a cost estimate for Section 404 mitigation.

Alternative 3: West Alignment Shift - Replacement					
Estimated Property Impacts:	5 parcels	Estimated Total Cost:	\$6,429,199.85***		
Estimated ROW Cost:	TBD**	Estimated CST Time:	24 months		

Rationale: This alternative would permanently shift the alignment of SR 25 just west of the existing bridge locations for a length of approximately 0.95-miles. Traffic would be maintained on the existing alignment during construction. This alternative would lengthen the area of impact to the existing route, affecting five parcels for right-of-way acquisition. This alternative is not recommended.

^{***} This figure does not include a cost estimate for Section 404 mitigation.

Alternative 4: East Alignment Shift - Replacement				
Estimated Property Impacts:	6 parcels	Estimated Total Cost:	\$7,055,940.21***	
Estimated ROW Cost:	TBD**	Estimated CST Time:	24 months	

Rationale: This alternative would permanently shift the alignment of SR 25 just east of the existing bridge locations for approximately 1.16-miles. Traffic would be maintained on the existing alignment during construction. This alternative, similar to Alternative 3 above, would lengthen the area of impact to the existing route, affecting six parcels for right-of-way acquisition. This alternative is not recommended.

^{**} Programming level cost is \$300,000. ROW estimate requested on 3/07/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

^{**} Programming level cost is \$300,000. ROW estimate requested on 3/07/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

^{**} Programming level cost is \$300,000. ROW estimate requested on 3/07/2018. ROW costs will be updated upon receipt of estimate from ROW Office.

^{***} This figure does not include a cost estimate for Section 404 mitigation.

SR25 At Little Waverly & Waverly Creek - Page 9

County: Camden

No-Build Alternative: No Build			
Estimated Property Impacts:	0 parcels	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	0 months

P.I. Number: 0013739

Rationale: This is not an acceptable option as the bridge design is below current standards, the substructure is classified as scour critical with signs of concrete deterioration in the piles, and does not meet the project justification.

Additional Comments/ Information:

Replacement in Existing Location with an Off-site Detour

Early coordination Letters were sent out by the department (8/4/2017) and responses received from Camden County Public Works (11/21/2017), Emergency Management Agency (11/21/2017), and Schools Operations (9/5/2017). County officials expressed major concerns associated with the impacts to services such as emergency response times and school bus route revisions if the bridges were closed up to a year and an off-site detour provided. For this reason, an on-site detour was considered as the initial preferred alternative; however, during the Concept Team Meeting (5/7/2018), discussions took place that detailed concerns with the on-site detour including significant environmental impacts, a dramatic increase in construction costs, and limited services disruption between the two detour options that led to the eventual determination that an off-site detour is the preferred alternative.

In order to provide an on-site detour at Little Waverly Creek and Waverly Creek, at each location, a new temporary roadway alignment, detour bridge, and work bridge would need to be constructed to route local traffic onto while the existing bridge is replaced in its existing location. These on-site detour alignments would be placed at the downstream side which would require additional right-of-way and increase construction costs. Also, the on-site detour would require considerable fill which creates additional environmental impacts to the surrounding identified streams, wetlands, and saltwater marsh which would, in turn, greatly increase the amount of mitigation costs as compared to utilizing an off-site detour.

Therefore, utilizing an off-site detour would not only alleviate the environmental and construction cost impacts of an on-site detour, it would also likely not be as considerable of an impact to services as previously noted in the early coordination responses from County officials. The primary concerns about an off-site detour conveyed by locals are impacts to local traffic travel times, response times of emergency personnel, and bus route revisions needed for locally affected students. From the Concept Team Meeting, the impacts will be minimal and local officials should have sufficient time to prepare for closure of the existing bridges and shifting of traffic to an off-site detour. The proposed detour route utilizes SR 25 and I-95, which runs parallel to SR 25. The travel distance between Waverly and Woodbine along SR 25 currently is approximately 9.5-miles while the travel distance if using the proposed detour route would be approximately 28-miles, resulting in a net detour length of 18.5-miles. Local traffic would not be limited to using the proposed detour route as there are alternative local routes that would facilitate local traffic between the Waverly, White Oak, and Woodbine areas which would also result in a lesser net detour length. Additionally, given the locations of Camden County Fire Rescue Station 17 in Waverly and the Woodbine Fire Station, which are both approximately 5-miles from White Oak on either side, impacts to emergency response times to locals would be minimal with the closure of the existing bridges over Little Waverly Creek and Waverly Creek. Furthermore, area hospitals are located to both the north and south of the proposed project area approximately 20-25 miles away in Brunswick and St. Marys. Furthermore, based on the early coordination response from Camden County Schools, approximately 20 students would be affected by the closure of the existing bridges and an off-site detour. Lastly, because this project and P.I. 0013738 will utilize the same detour route, the construction of the three projects among both project will need to be sequenced

SR25 At Little Waverly & Waverly Creek – Page 10 0013739

P.I. Number:

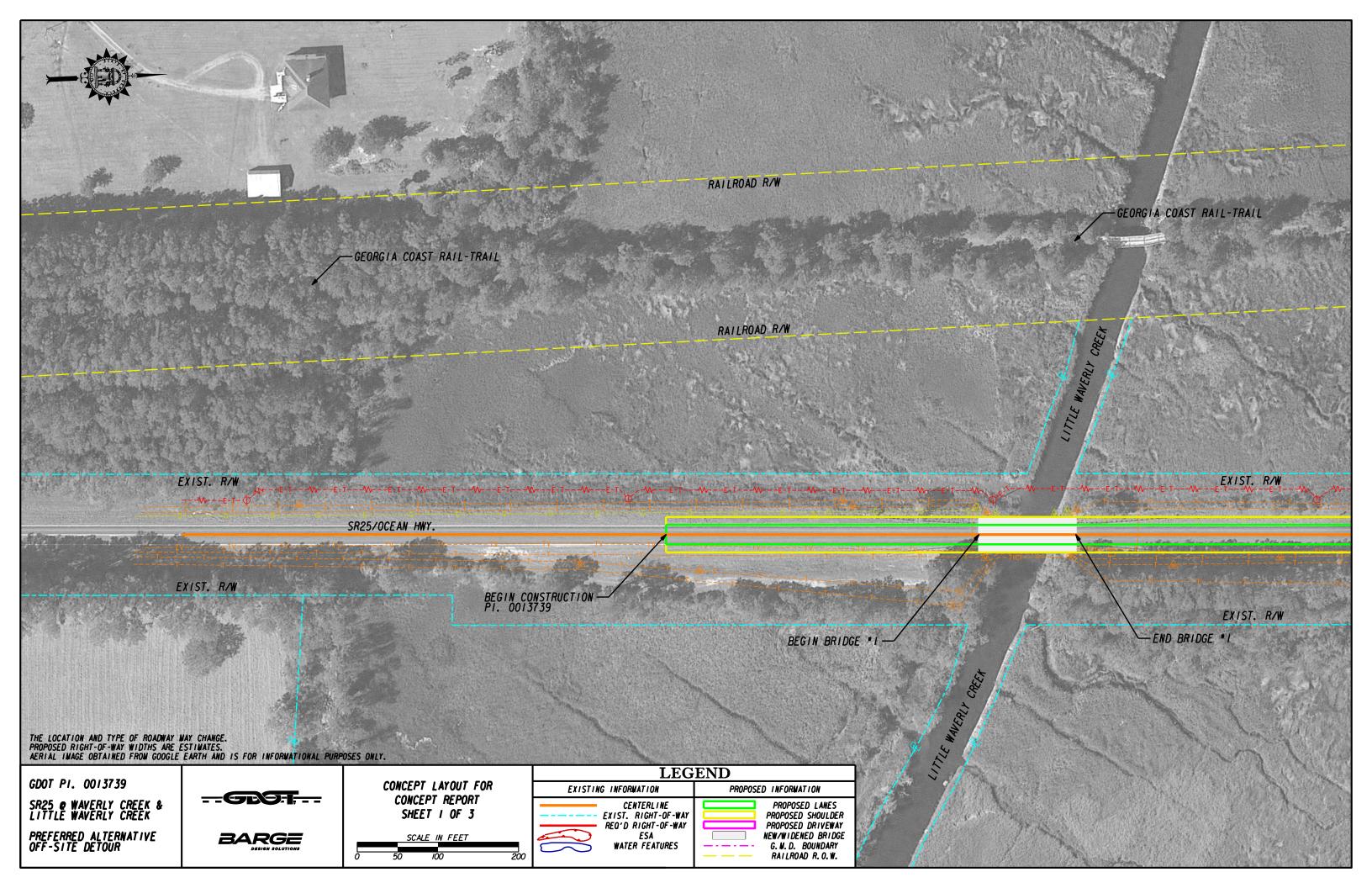
County: Camden

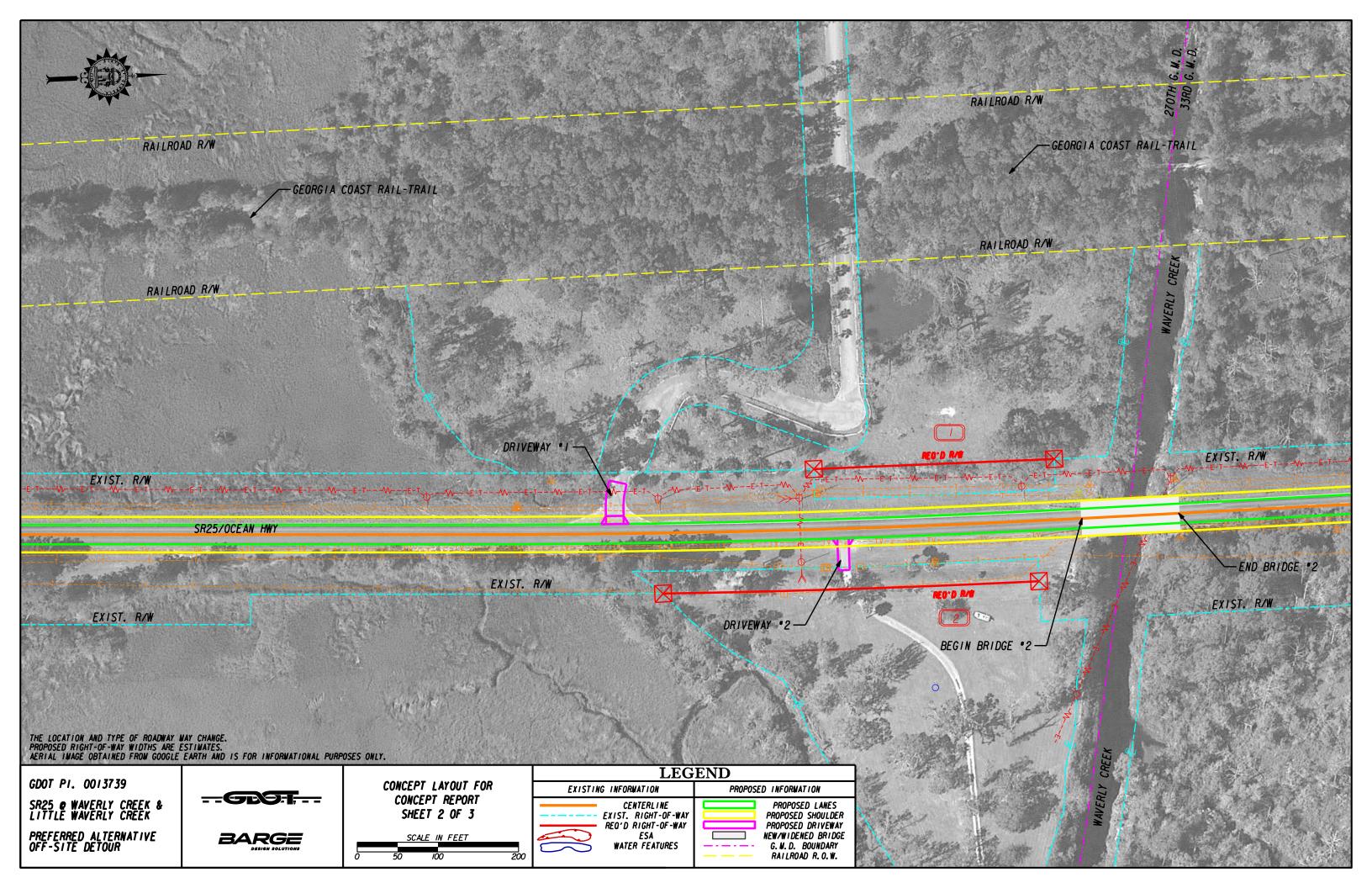
such that both project areas are not closed to traffic at the same time and access for local traffic is maintained. Additional coordination letter need to be sent out to Camden County Public Works, Emergency Management Agency, and Schools Operations from the Department based on these findings.

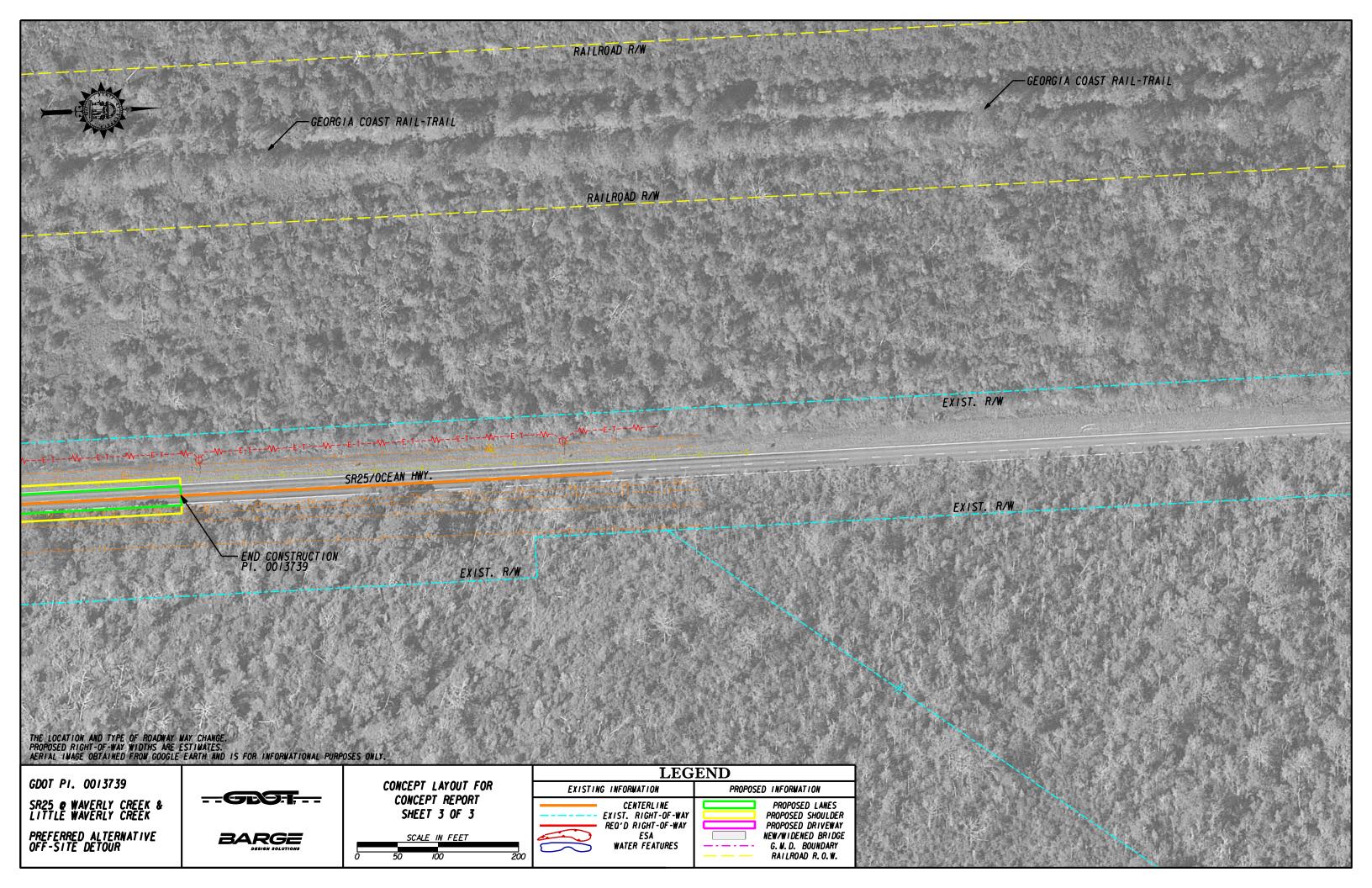
LIST OF ATTACHMENTS/SUPPORTING DATA

- 1. Concept Layout
- 2. Typical sections
- 3. Detour Map
- 4. Cost Estimates
- 5. Concept Utility Report
- 6. Traffic Approval Letter
- 7. Existing Bridge SI&A
- 8. Concept Team Meeting Minutes

	Attachment #1: Concept Layout
•	Preferred Alternative: Replacement in Existing Location with an Off-Site Detour

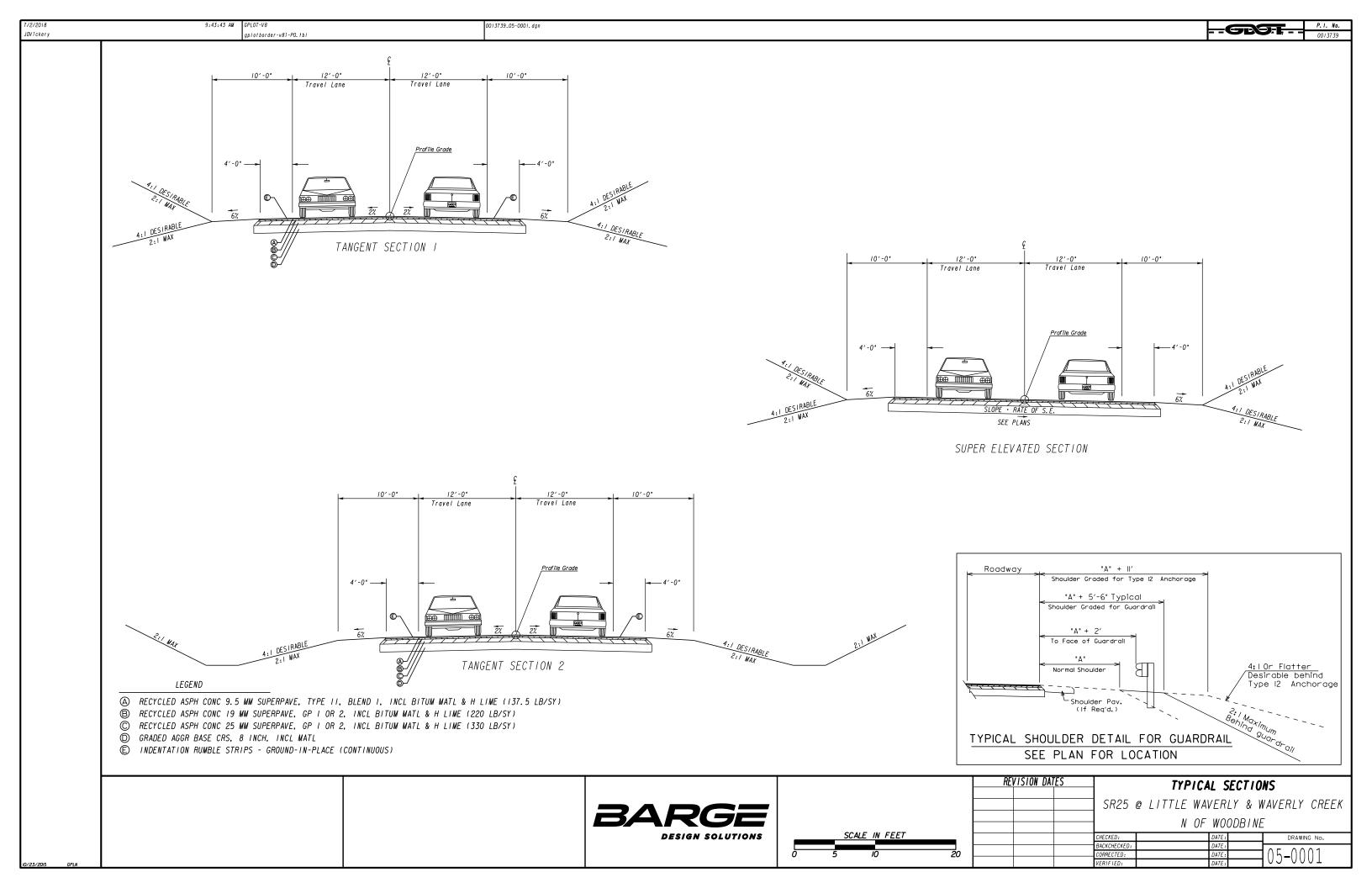




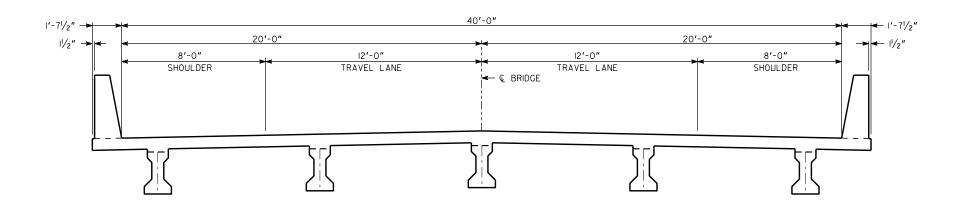


Attachment #2: Typical Sections

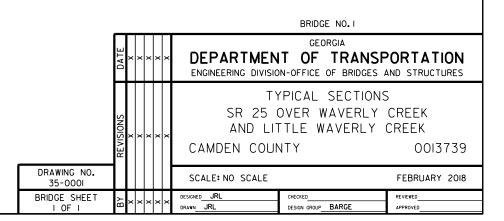
- Roadway Typical
- Bridge Typical







TYPICAL SECTION OVER WAVERLY CREEK TYPICAL SECTION OVER LITTLE WAVERLY CREEK

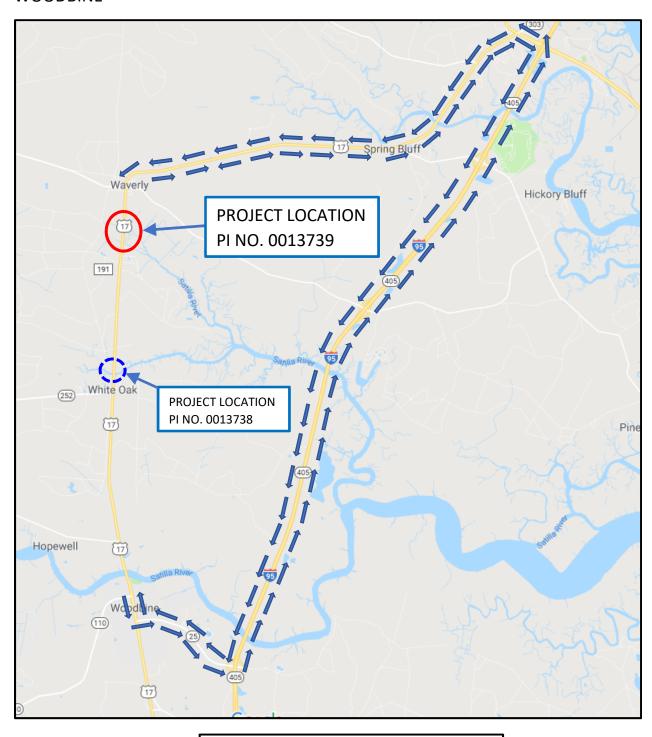


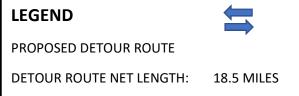
Attachment #3: Detour Map

• Proposed Off-Site Detour Map

PROJECT DETOUR MAP

PI 0013739 - SR 25 @ LITTLE WAVERLY CREEK & @ WAVERLY CREEK N OF WOODBINE





Attachment #4: Cost Estimates

- Revisions to Programmed Costs for Preferred Alternative
- CES Cost Estimate for Preferred Alternative
- Section 404 Mitigation Cost Estimate for Preferred Alternative

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No.		0013739	OFFICE	Program Delivery			
PROJECT DESCRIPTION								
_	SR 25 @ LITTLE WAVERLY CREEK & @ WAVERLY CREEK N OF							
WOOD	BINE BRIDO	SE REPLACE	MENT		DATE	July 25, 2018		
From:	Vimbarly N	Jachitt State P	rogram Delivery Admini	istrator				
		•	•	istrator				
To:	•		ect Review Engineer E stimatesandUpdates@	dot as asy				
	via Eiliali i	vianibox: Costi	Estimatesand O puates@	dot.ga.gov				
Subject	: REVISION	S TO PROG	RAMMED COSTS					
DD O IE		CD L.L.	DE (Dans)	MGMT LET	ΓDATE	12/15/2020		
PROJEC	CT MANAGI	Design So	ee, P.E. (Barge blutions)	MGMT RO	W DATE	1/15/2020		
DDOCI		OSTS (TDmo)	W/OUT INELATION)		LACT	ECTIMATE HDDATE		
<u>PROGI</u>	RAMMED C	OSTS (TPro	W/OUT INFLATION)		LAST	ESTIMATE UPDATE		
	RAMMED C	OSTS (TPro	3,740,208.70		<u>LAST</u> DATE	ESTIMATE UPDATE 8/24/2017		
CONST								
CONST	RUCTION OF WAY	\$	3,740,208.70		DATE DATE	8/24/2017		
CONST	RUCTION OF WAY	\$	3,740,208.70		DATE	8/24/2017		
CONST RIGHT UTILIT	RUCTION OF WAY	\$	3,740,208.70		DATE DATE	8/24/2017		
CONST RIGHT UTILIT REVISE	TRUCTION OF WAY TIES	\$	3,740,208.70		DATE DATE	8/24/2017		
CONST RIGHT UTILIT REVISE CONST	RUCTION OF WAY TES ED COST ES	\$ STIMATES	3,740,208.70		DATE DATE	8/24/2017		
CONST RIGHT UTILIT REVISE CONST	TRUCTION OF WAY TIES ED COST ES TRUCTION* OF WAY	\$ STIMATES \$	3,740,208.70		DATE DATE	8/24/2017		

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

This concept cost estimate for the Preferred Alternative is based on utilitizing an off-site detour. A 15% contingency for concept level estimate used based on the Risk Based Cost Estimation memo by GDOT dated 4/30/2014. This concept level cost estimate does not include environmental mitigation costs or updated right-of-way costs.

CONTINGENCY SUMMARY

Α.	CONSTRUCTION COST ESTIMATE:	\$ 3,611,488.74	Base Estimate From CES	
В.	ENGINEERING AND INSPECTION (E & I):	\$ 180,574.44	Base Estimate (A) x	5 %
C.	CONTINGENCY:	\$ 568,809.48	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	15 %
D.	TOTAL LIQUID AC ADJUSTMENT:	\$ 45,423.23	Total From Liquid AC Spreads	heet
Ε.	CONSTRUCTION TOTAL:	\$ 4,406,295.88	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Atlanta Gas Light	\$ -
Bellsouth (AT&T)	\$ -
TDS	\$ -
GA Power - Distribution	\$ 40,000.00
Alma Telephone	\$ -
TOTAL	\$ 40,000.00
ATTACHMENTS: (File Copy in the Project Cost Estimat Liquid AC Adjustment Spreadsheet PSR	e Folder)

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME:	Barge Design Solutions, Inc.		
VAL	IDATION OF FINAL QC/QA		
PRINTED NAME:	Johnny Lee		
TITLE:	Project Manager		
SIGNATURE:	Julae.		
DATE:	7-25-2018		

0/00/2016 PROJ. NO. N/A CALL NO. P.I. NO. 0013739 7/12/2018 DATE INDEX (TYPE) DATE INDEX Link to AC Index: REG. UNLEADED 2.714 http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex Jul-18 DIESEL 3.083 LIQUID AC 507.00 LIQUID AC ADJUSTMENTS PA=[((APM-APL)/APL)]xTMTxAPL Asphalt 42283.8 \$ 42,283.80 Price Adjustment (PA) Monthly Asphalt Cement Price month placed (APM) 60% \$ 811.20 Max. Cap Monthly Asphalt Cement Price month project let (APL) 507.00 Total Monthly Tonnage of asphalt cement (TMT) 139 %AC **ASPHALT** AC ton Tons Leveling 26 5.0% 1.3 12.5 OGFC 0 5.0% 0 12.5 mm 0 5.0% 0 9.5 mm SP 551 5.0% 27.55 25 mm SP 1322 5.0% 66.1 19 mm SP 881 5.0% 44.05 2780 139 **BITUMINOUS TACK COAT** 1,046.56 1,046.56 \$ Price Adjustment (PA) Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% 811.20 Monthly Asphalt Cement Price month project let (APL) 507.00 3.440375839 Total Monthly Tonnage of asphalt cement (TMT) Bitum Tack Gals gals/ton 801 232.8234 3.44037584 **BITUMINOUS TACK COAT (surface treatment)** Price Adjustment (PA) 2092.863346 \$ 2.092.86 Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% 811.20 Monthly Asphalt Cement Price month project let (APL) 507.00 Total Monthly Tonnage of asphalt cement (TMT) 6.879892657 gals/ton Bitum Tack SY Gals/SY Gals tons Single Surf. Trmt. 8009 0.20 1601.8 232.8234 6.879892657 Double Surf.Trmt. 0.44 0 232.8234 0 Triple Surf. Trmt 0.71 0 232.8234 0 6.879892657

45,423.23

\$

TOTAL LIQUID AC ADJUSTMENT

0013739_CES_Preferred Alternative.txt STATE HIGHWAY AGENCY

DATE : 07/25/2018

PAGE : 1

JOB ESTIMATE REPORT

DESCRIPTION: SR 25 @ LITTLE WAVERLY CREEK & @ WAVERLY CREEK N OF WOODBINE

PREFERRED ALTERNATIVE - OFF-SITE DETOUR

COST GROUPS FOR JOB 0013739_ALT2

COST GROU	JP DESCRIPTION	QUANTITY	PRICE	AMOUNT ACTIVE?
STRO	STRUCTURES, OTHER (SF)	8650.000	150.00000	1297500.00 Y
EROC	EROSION CONTROL (SY)	1.000	350000.00000	350000.00 Y
DRNG	DRAINAGE	1.000	55000.00000	55000.00 Y
MISC	SIGNING & MARKING	1.000	35000.00000	35000.00 Y
ACTIVE CO	OST GROUP TOTAL			1737500.00
INFLATED	COST GROUP TOTAL			1737500.00

ITEMS FOR JOB 0013739_ALT2

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0013739	1.000	70000.00	70000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	102569.60	102569.60
0015	210-0100		LS	GRADING COMPLETE - 0013739	1.000	800000.00	800000.00
0025	310-5060		SY	GR AGGR BS CRS 6IN INCL MATL	202.000	13.47	2721.26
0030	310-5080		SY	GR AGGR BS CRS 8IN INCL MATL	8009.000	19.01	152297.62
0035	402-1812		TN	RECYL AC LEVELING, INC BM&HL	26.000	132.21	3437.48
0040	402-3103		TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	551.000	86.99	47935.34
0045	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	1322.000	87.76	116020.65
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	881.000	93.88	82713.25
0055	413-0750		GL	TACK COAT	801.000	1.86	1489.86
0060	432-5010		SY	MILL ASPH CONC PVMT, VARB DEPTH	312.000	2.42	755.04
0065	433-1200		SY	REF CONC APPR SL/I SLOPED EDGE	577.000	187.28	108060.68
0100	641-1100		LF	GUARDRAIL, TP T	175.000	71.49	12511.13
0105	641-1200		LF	GUARDRAIL, TP W	2137.500	18.77	40136.80
0110	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	4.000	1065.64	4262.58
0150	540-1101		LS	REM OF EX BR, STA NO - 0013739	1.000	151470.00	151470.00
0155	540-1101		LS	REM OF EX BR, STA NO - 0013739	1.000	151470.00	151470.00
0160	641-5020		EA	GUARDRL, ANCHOR, TP 12B,31 IN, FLR, E/A	4.000	2387.52	9550.08
0165	632-0003		EA	CHANGEABLE MESS SIGN, PORT, TP 3	2.000	7783.09	15566.19
0170	456-2020		GLM	INDENT, EDG LN RUMB STRP	1.000	1021.18	1021.18

0013739_CES_Preferred Alternative.txt

-GND-IN-PL(CON)

ITEM TOTAL INFLATED ITEM TOTAL		1873988.74 1873988.74
TOTALS FOR JOB 0013739_ALT2		
DATE : 07/25/2018 PAGE : 2	STATE HIGHWAY AGENCY	
	JOB ESTIMATE REPORT	
ESTIMATED COST: CONTINGENCY PERCENT (0.0): ESTIMATED TOTAL:		3611488.74 0.00 3611488.74

Johnny Lee

From: Westberry, Lisa < lwestberry@dot.ga.gov>

Sent: Thursday, July 12, 2018 1:24 PM **To:** Ghazi, Aghdas; Johnny Lee

Cc: Jackson, Keisha

Subject: P.I. 0013739 Camden County - Estimated Mitigation Cost for Concept Report

Aghdas/Johnny,

As requested, the estimated mitigation costs for the subject project is **\$329,560.00**. This estimate was based on the assumption that credits would be available for purchase as I believe that credits will be available for purchase within six to nine months. The estimate was also based on actual field verification of resources. The final cost of mitigation credits is dependent upon the final design and the actual cost of the credits.

If you should have any questions or need any additional information, please do not hesitate to contact me. Thank you.

Lisa Westberry

Special Projects Coordinator



Office of Environmental Services One Georgia Center, 16th Floor 600 West Peachtree Street, NW Atlanta, GA, 30308 404.631.1772

Hands-free cell phone use now law when driving in Georgia. When drivers use cell phones and other electronic devices it must be with hands-free technology. It is illegal for a driver to hold a phone in their hand or use any part of their body to support a phone. There are many facets to the new law. For details, visit https://www.gahighwaysafety.org/ or https://www.headsupgeorgia.com/.

Attachment #5: Concept Utility Report

• PI# 0013739 Concept Utility Report

Original Version: May 24, 2013

Concept Utility Report

Project Number:	District: 5
County: Camden	Prepared by: Leslie Dubberly
P.I. # <u>0013739</u>	Date: May 8, 2018
Project Description: SR 25 @ Little Waverly Cree	k & @ Waverly Creek N of Woodbine
The information provided herein has been gathered fr Nothing contained in this report is to be used as a subs	rom Georgia811and/or field visits and serves as an estimate. titute for 1 st Submission or SUE.
Are SUE services recommended? SUE has been p	oreformed Level: A B C D
Public Interest Determination (PID):	matic
⊠ No Us	se Exempt
Is a separate utility funding phase recommended	d? <u>No</u>
Existing Facilities: Atlanta Gas Light (AGL), Bellso Telephone (ATC)	uth (ATT), TDS, GA Power-Distribution, Alma
Potential Project (Schedule/Budget) Impacts: N/	<u>'A</u>
Capital Improvement Projects (Utilities) Anticipa	ted in the Area: <u>N/A</u>
Project Specific Recommendations for Avoidance	e/Mitigation: <u>N/A</u>
Right of Way Coordination Concerns: N/A	
Environmental Coordination: N/A	
Additional Remarks: N/A	

Original Version: May 24, 2013

The following utilities have facilities within the project limits. Utilities have been located using Georgia811 and/or field visits.

Existing Facilties/Appurtenances	Approximate Limits (Station/Offset)	Reimbursable cost (est.)	Non- reimbursable cost (est.)	Facilities to Avoid (Station/Offset)	Facility Retention Recommended	Comments
Atlanta Gas Light	Attached to both bridges W side		\$380,160.00			
Bellsouth (ATT)	Attached to both bridges E side		\$63,360.00			
TDS	Entire project		\$63,360.00			
GA Power-Distribution	W side entire project	\$40,000.00				
Alma Telephone	Buried E side entire project		\$63,360.00			

Attachment #6: Traffic Approval Letter PI# 0013739 Traffic Assignments Memo and Approval Letter

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Camden County OFFICE Planning

P.I. # 0013739

DATE April 3, 2018

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Kimberly Nesbitt, State Program Delivery Administrator

Attention: Aghdas Ghazi

SUBJECT Design Traffic Forecasts for SR 25 @ LITTLE WAVERLY CREEK & @

WAVERLY CREEK N OF WOODBINE

Per request, we have reviewed the consultant's design traffic forecasts for the above project. Based on the information furnished, we find the design traffic forecasts to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecast for the above project is as follows:

BRIDGE ID # 039-0009-0 LITTLE WAVERLY CREEK, 039-0010-0 (WAVERLY CREEK)

				(,	
Build = No Build	2018 (Existing Year)	2022 (Base Year)	2024 (Base Year +2)	2042 (Design Year)	2044 (Design Year + 2)	
AADT	2325	2425	2475	2950	3000	
DHV (AM/PM)	160/ 210	165/ 220	170/ 225	205/ 265	205/ 270	
K% (AM/PM)	6.9%/ 9.1%					
D% (AM/PM)	56%/ 56%					
24 HR. T% - S.U.	7.5%	Come on Eviating Voor				
24 HR. T% - COMB.	4.0%					
24 HR. T% - TOTAL	11.5%	Same as Existing Year				
T% - S.U. (AM/PM)	6.0%/ 5.0%					
T% - COMB. (AM/PM)	3.5%/ 3.0%					
T% - TOTAL (AM/PM)	9.5%/ 8.0%					

If you have any questions concerning this information, please contact Andre Washington at 404-631-1925.

Andre Washington Office Of Planning 5th Floor, One Georgia Center 404-631-1925

CLV/AMW

Attachment #7: SI&A Report

(Provided by GDOT)

- Existing Bridge 039-0009-0 SI&A Report
- Existing Bridge 039-0010-0 SI&A Report

SUFF. RATING: 64.0

County: Camden

Processed Date:12/12/2017

Bridge Serial Number: 039-0009-0

217 Benchmark Elevation:

* Location ID No:

0000.00

039-00025D-023.59N

Parameters: Bridge Serial Number

Location & Geography		218 Datum:	0- Not Applicable	Signs & Attachments	
Structure ID:	039-0009-0	*19 Bypass Length:	13	225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant).
200 Bridge Information:	06	*20 Toll:	3- On a Free Road or Non-Highway	242 Deck Drains:	1- Open Scuppers.
*6 Feature Intersected:	LITTLE WAVERLY CREEK	*21 Maintenance Responsibility:	01-State Highway Agency.	243A Parapet Location:	0- None present.
*7A Route Number Carried:	SR00025	*22 Owner:	01-State Highway Agency.	243B Parapet Height:	0.00
*7B Facility Carried:	US 17 OCEAN HWY	*31 Design Load:	6- HS 20 + Mod (2-24,000# Axles @ 4ft Ctrs., when they govern)	243C Parapet Width:	0.00
9 Location:	7 MI N OF WOODBINE	37 Historical Significance:	5- Not eligible for the National Register of Historic Places	238A Curb Height:	1.2
2 GDOT District:	4841500000 - D5 District Five Jesup	205 Congressional District:	001	238B Curb Material:	1- Concrete.
*91 Inspection Frequency:	24 Date: 05/10/2017	27 Year Constructed:	1955	239A Handrail Left:	1- Concrete.
92A Fracture Critical Insp. Freq:	0 Date: 02/01/1901	106 Year Reconsttucted:	0	239B Handrail Right:	1- Concrete.
92B Underwater Insp Freq:	0 Date: 11/13/2017	33 Bridge Median:	0-None	*240 Median Barrier Rail:	0- None.
92C Other Spc. Insp Freq:	12 Date: 05/12/2016	34 Skew:	0	241A Bridge Median Height:	0
* 4 Place Code:	00000	35 Structure Flared:	No	241B Bridge Median Width:	0
*5A Inventory Route(O/U):	1	38 Navigation Control:	0- Navigation is not controlled by an Agency	*230A Guardrail Location Direction Rear:	3- Both sides.
5B Route Type:	2 - U.S. Numbered	213 Special Steel Design:	0- Not applicable or other	*230B Guardrail Location Direction Fwrd:	3- Both sides.
5C Service Designation:	1- Mainline	267A Type Paint Super Structure:	0- Not Applicable. Year : 0000	*230C Guardrail Location Opposing Rear:	0- None.
5D Route Number:	00017	267B Type Paint Sub Structure:	0- Not Applicable Year : 0000	*230D Guardrail Location Opposing Fwrd:	0- None.
5E Directional Suffix:	0. Not applicable	*42A Type of Service On:	1-Highway	244 Approach Slab:	3- Forward and Rear.
*16 Latitude:	31 - 4.6242	*42B Type of Service Under:	5-Waterway	224 Retaining Wall:	0- None.
*17 Longtitude:	81 - 43.6236	214A Movable Bridge:	0	233 Posted Speed Limit:	55
98A Border Bridge:	0 98B: GA% 00	214B Operator on Duty:	0	236 Warning Sign:	No
99 ID Number:	000000000000000	203 Type Bridge:	D - Concrete pile. O. Concrete O. Concrete O. Concrete	234 Delineator:	Yes
*100 STRAHNET:	0- The Feature is not a STRAHNET route.	259 Pile Encasement:	3	235 Hazard Boards:	Yes
12 Base Highway Network:	Yes	*43A Structure Type Main material:	1-Concrete	237A Gas:	21- Bottom Left.
13A LRS Inventory Route:	391002500	*43B Structure Type Main Type:	4-Tee Beam	237B Water:	00- Not Applicable
13B Sub Inventory Route:	0	45 Number of Main Spans:	3	237C Electric:	00- Not Applicable
101 Parallel Structure:	N. No parallel structure exists	44 Structure Type Approach:	A:0- Other B: 0- Other	237D Telephone:	22- Bottom Right.
*102 Direction of Traffic:	2- Two Way	46 Number of Approach Spans:	0	237E Sewer:	00- Not Applicable
*264 Road Inventory Mile Post:	23.42	226 Bridge Curve:	A: Vertical: NoB: Horizontal: No	247A Lighting: Street:	No
*208 Inspection Area:	Area 05	111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway	247B Navigation:	No
*104 Highway System:	0- Inventory Route is not on the NHS	107 Deck Structure Type:	1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars	247C Aerial:	No
*26 Functional Classification:	6- Rural - Minor Arterial	108A Wearing Surface Type:	6. Bituminous	*248 County Continuity No.:	00
*204A Federal Route Type:	F - Primary.	108B Membrane Type:	8. Unknown	36A Bridge Railings:	2- Inspected feature meets acceptable
					construction date standards.
*204B Federal Route Number:	00091	108C Deck Protection:	8. Unknown	36B Transition:	2- Inspected feature meets acceptable
					construction date standards.
105 Federal Lands Highway:	0. Not applicable	265 Underwater Inspection Area:	0	36C Approach Guardrail:	2- Inspected feature meets acceptable
					construction date standards.
*110 Truck Route:	0- The Feature is not part of the National Network for			36D Approach Guardrail Ends:	2- Inspected feature meets acceptable
	Trucks				construction date standards.

SUFF. RATING: 64.0

County: Camden

Processed Date:12/12/2017

Bridge Serial Number: 039-0009-0

Bridge Gerial Number: 000 0000	0	oddiny. damaen		00111.11A11110.04.0	
Programming Data		Measurements:		Ratings and Posting	
201 Project Number:	BA (2) 1791 (12)	*29 AADT:	2060	65 Inventory Rating Method:	1-Load Factor (LF)
202 Plans Available:	1- Plans at General Office.	*30 AADT Year:	2012	63 Operating Rating Method:	1-Load Factor (LF)
249 Proposed Project Number:	000000000000000000000000	109 % Truck Traffic:	1	66A Inventory Type:	2 - HS loading.
250A Reconstruction Approval Status:	No	* 28A Lanes On:	2	66B Inventory Rating:	28
250B Route Approval Status:	No	*28B Lanes Under:	0	64A Operating Type:	2 - HS loading.
250C Approval Status Definition:	0	210A Tracks On:	00	64B Operating Rating:	47
250D Approval Status Federal:	0	210B Tracks Under:	0	231Calculated Loads	Posting Required
251Project Identification Number:	0013739	* 48 Maximum Span Length:	33	231A H-Modified:	21 No
252 Contract Date:	02/01/1901	* 49 Structure Length:	99	231B Type3/Tandem:	25 No
260 Seismic Number:	00000	51 Bridge Roadway Width:	27.7'	231C Timber:	36 No
75A Type Work Proposed:	0- Not Applicable	52 Deck Width:	34.2'	231D HS-Modified:	30 No
75B Work Done by:	0- Initial Inventory	* 47 Total Horizontal Clearance:	27.7'	231E Type 3S2:	40 No
94 Bridge Improvement Cost:(X\$1,000)	\$387	50A Curb / Sidewalk Width Left:	2.0	231F Piggyback:	40 No
95 Roadway Improvement Cost: (X\$1,000)	\$39	50B Curb / Sidewalk Width Right:	2.0	261 H Inventory Rating:	21
96 Total Improvement Cost: (X\$1,000)	\$580	32 Approach Rdwy. Width:	29.0'	262 H Operating Rating:	25
76 Improvement Length:	0.0'	*229 Approach Roadway		67 Structural Evaluation:	5
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width: 3.3	Right Width: 2.4 Type: 2 - Asphalt.	58 Deck Condition:	7 - Good Condition
114 Future AADT:	3090	Fwd Shoulder: Left Width: 3.3	Right Width:2.5 Type: 2 - Asphalt.	59 Superstructure Condition:	7 - Good Condition
115 Future AADT Year:	2032	Rear Pavement: Width: 23.8	Type:2- Asphalt.	* 227 Collision Damage:	
		Forward Pavement: Width: 23.8	Type:2- Asphalt.	60A Substructure Condition:	5 - Fair Condition
		Intersection Rear: 0	Forward:0	60B Scour Condition:	7 - Good Condition
Hydraulic Data		53 Minimum Vertical Clearance Over Rd:	99' 99"	60C Underwater Condition:	5 - Fair Condition
113 Scour Critical:	3. Bridge is Scour Critical;foundations	54A Under Reference Feature:	N- Feature not a highway or railroad.	71 Waterway Adequacy:	8-Equal to present desirable criteria.
216A Water Depth:	unstable for conditions 10.2	54B Minimum Clearance Under:	0' 0"	61 Channel Protection Cond.:	7-Better than present minimum criteria.
216B Bridge Height:	6.5	*228 Minimum Vertical Clearance	0 0	68 Deck Geometry:	3
222 Slope Protection:		228A Actual Odometer Direction:	99'99"	69 UnderClr. Horz/Vert:	N
221A Spur Dike Rear:		228B Actual Opposing Direction:	99'99"	72 Approach Alignment:	8-No reduction of vehicle operating speed
221B Spur Dike Fwd:		228C Posted Odometer Direction:	00'00"	62 Culvert:	required. N - Not Applicable
219 Fender System:	0- None.	228D Posted Opposing Direction:	00'00"	70 Bridge Posting Required:	5. Equal to or above legal loads
220 Dolphin:		55A Lateral Underclearance Reference:	N- Feature not a highway or railroad.	41 Struct Open, Posted, CL:	A. Open, no restriction
223A Culvert Cover:	000	55B Lateral Underclearance on Right:	0.0	* 103 Temporary Structure:	No
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance on Left:	0.0	232 Posted Loads	
223C Number of Barrels:	0	10A Direction of Travel for Max Min:	0	232A H-Modified:	00
223D Barrel Width:	0.0	10B Max Min Vertical Clearance:	99'99"	232B Type3/Tandem:	00
223E Barrel Height:	0.0	245A Deck Thickness Main:	6.0	232C Timber:	00
223F Culvert Length:	0.0	245B Deck Thickness Approach:	0.0	232D HS-Modified:	00
223G Culvert Apron:		246 Overlay Thickness:	2	232E Type 3s2:	00
39 Navigation Vertical Clearance:	0'			232F Piggyback:	00
40 Navigation Horizontal Clearance:	0			253 Notification Date:	02/01/1901
116 Navigation Vertical Clear Closed:	0			258 Federal Notify Date:	02/01/1901

County: Camden

SUFF. RATING: 60.3

Processed Date:12/12/2017

Bridge Serial Number: 039-0010-0

217 Benchmark Elevation:

* Location ID No:

0000.00

039-00025D-023.93N

Parameters: Bridge Serial Number

218 Datum: Location & Geography 0- Not Applicable Signs & Attachments 039-0010-0 13 225 Expansion Joint Type: Structure ID: *19 Bypass Length: 02- Open or sealed concrete joint (silicone 200 Bridge Information: 06 *20 Toll 242 Deck Drains: 1- Open Scuppers. 3- On a Free Road or Non-Highway *6 Feature Intersected: WAVERLY CREEK *21 Maintenance Responsibility: 243A Parapet Location: 0- None present. 01-State Highway Agency. *7A Route Number Carried: SR00025 *22 Owner: 01-State Highway Agency. 243B Parapet Height: 0.00 *7B Facility Carried: US 17 OCEAN HWY *31 Design Load: 6- HS 20 + Mod (2-24,000# Axles @ 4ft Ctrs., when they govern) 243C Parapet Width: 0.00 8 MI N OF WOODBINE 37 Historical Significance: 5- Not eligible for the National Register of Historic Places 238A Curb Height: Location: 1.2 2 GDOT District: 4841500000 - D5 District Five Jesup 205 Congressional District: 238B Curb Material: 1- Concrete. *91 Inspection Frequency: 24 Date: 05/10/2017 27 Year Constructed: 1955 239A Handrail Left: 1- Concrete. 92A Fracture Critical Insp. Freq: Date: 02/01/1901 106 Year Reconsttucted: 0 239B Handrail Right: 1- Concrete. 0 92B Underwater Insp Freq: 11/13/2017 0-None *240 Median Barrier Rail: 0- None. 33 Bridge Median: 241A Bridge Median Height: 92C Other Spc. Insp Freq: 12 Date: 05/12/2016 34 Skew: 0 0 00000 * 4 Place Code 35 Structure Flared: 241B Bridge Median Width: 0 *5A Inventory Route(O/U): 38 Navigation Control: 0- Navigation is not controlled by an Agency *230A Guardrail Location Direction Rear: 3- Both sides. 5B Route Type: 2 - U.S. Numbered 213 Special Steel Design: 0- Not applicable or other *230B Guardrail Location Direction Fwrd: 3- Both sides 1- Mainline 267A Type Paint Super Structure: 0- Not Applicable. Year: 0000 *230C Guardrail Location Opposing Rear: 0- None 5C Service Designation: 5D Route Number: 00017 267B Type Paint Sub Structure: 0- Not Applicable Year: 0000 *230D Guardrail Location Opposing Fwrd: 5E Directional Suffix: 0. Not applicable *42A Type of Service On: 1-Highway 244 Approach Slab: 3- Forward and Rear. 224 Retaining Wall: *16 Latitude: 31 - 4.9158 *42B Type of Service Under: 5-Waterway 0- None *17 Longtitude: 81 - 43.5930 214A Movable Bridge: 0 233 Posted Speed Limit: 55 98A Border Bridge: 98B: GA% 00 214B Operator on Duty: 236 Warning Sign: No 000000000000000 Yes 99 ID Number: 203 Type Bridge: D - Concrete pile. O. Concrete O. Concrete O. Concrete 234 Delineator: *100 STRAHNET: 0- The Feature is not a STRAHNET route. 259 Pile Encasement: 235 Hazard Boards: Yes *43A Structure Type Main material: 237A Gas: 12 Base Highway Network: 1-Concrete 31- Side Left. 391002500 237B Water: 13A LRS Inventory Route: *43B Structure Type Main Type: 4-Tee Beam 00- Not Applicable 13B Sub Inventory Route: 45 Number of Main Spans: 3 237C Electric: 00- Not Applicable 32- Side Right. 101 Parallel Structure: N. No parallel structure exists 44 Structure Type Approach: A:0- Other B: 0- Other 237D Telephone: *102 Direction of Traffic: 2- Two Way 46 Number of Approach Spans: 237E Sewer: 00- Not Applicable 226 Bridge Curve: *264 Road Inventory Mile Post: 23.75 A: Vertical: NoB: Horizontal: No 247A Lighting: Street: No *208 Inspection Area: Area 05 111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway 247B Navigation: No 1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars *104 Highway System: 0- Inventory Route is not on the NHS 107 Deck Structure Type: 247C Aerial: No *26 Functional Classification: 6- Rural - Minor Arterial 108A Wearing Surface Type: 6. Bituminous *248 County Continuity No.: 00 *204A Federal Route Type: F - Primary. 108B Membrane Type: 8. Unknown 36A Bridge Railings: 2- Inspected feature meets acceptable construction date standards. *204B Federal Route Number: 00091 108C Deck Protection: 8. Unknown 36B Transition: 2- Inspected feature meets acceptable construction date standards. 105 Federal Lands Highway: 265 Underwater Inspection Area: 0 36C Approach Guardrail: 2- Inspected feature meets 0. Not applicable acceptable construction date standards. *110 Truck Route: 0- The Feature is not part of the National Network for 36D Approach Guardrail Ends: 2- Inspected feature meets acceptable Trucks construction date standards

SUFF. RATING: 60.3

County: Camden

Processed Date:12/12/2017

Bridge Serial Number: 039-0010-0

bridge Serial Number: 039-0010	-0	County. Camden		SUFF. RATING. 60.3	
Programming Data		Measurements:		Ratings and Posting	
201 Project Number:	BA (2) 1791 (12)	*29 AADT:	2060	65 Inventory Rating Method:	1-Load Factor (LF)
202 Plans Available:	0- No Plans Available.	*30 AADT Year:	2012	63 Operating Rating Method:	1-Load Factor (LF)
249 Proposed Project Number:	000000000000000000000000000000000000000	109 % Truck Traffic:	1	66A Inventory Type:	2 - HS loading.
250A Reconstruction Approval Status:	No	* 28A Lanes On:	2	66B Inventory Rating:	23
250B Route Approval Status:	No	*28B Lanes Under:	0	64A Operating Type:	2 - HS loading.
250C Approval Status Definition:	0	210A Tracks On:	00	64B Operating Rating:	39
250D Approval Status Federal:	0	210B Tracks Under:	0	231Calculated Loads	Posting Required
251Project Identification Number:	0013739	* 48 Maximum Span Length:	33	231A H-Modified:	20 No
252 Contract Date:	02/01/1901	* 49 Structure Length:	99	231B Type3/Tandem:	21 No
260 Seismic Number:	00000	51 Bridge Roadway Width:	27.8'	231C Timber:	29 No
75A Type Work Proposed:	0- Not Applicable	52 Deck Width:	34.0'	231D HS-Modified:	26 No
75B Work Done by:	0- Initial Inventory	* 47 Total Horizontal Clearance:	27.8'	231E Type 3S2:	34 No
94 Bridge Improvement Cost:(X\$1,000)	\$387	50A Curb / Sidewalk Width Left:	2.0	231F Piggyback:	40 No
95 Roadway Improvement Cost: (X\$1,000)	\$39	50B Curb / Sidewalk Width Right:	2.0	261 H Inventory Rating:	18
96 Total Improvement Cost: (X\$1,000)	\$580	32 Approach Rdwy. Width:	27.0'	262 H Operating Rating:	30
76 Improvement Length:	0.0'	*229 Approach Roadway		67 Structural Evaluation:	5
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width: 1.9	Right Width:2.2 Type: 2 - Asphalt.	58 Deck Condition:	7 - Good Condition
114 Future AADT:	3090	Fwd Shoulder: Left Width: 2	Right Width: Type: 2 - Asphalt. 2.3000000000000 003	59 Superstructure Condition:	7 - Good Condition
115 Future AADT Year:	2032	Rear Pavement: Width: 23.1	T <i>ype</i> :2- Asphalt.	* 227 Collision Damage:	
		Forward Pavement: Width: 23.8	Type:2- Asphalt.	60A Substructure Condition:	5 - Fair Condition
		Intersection Rear: 0	Forward:0	60B Scour Condition:	7 - Good Condition
Hydraulic Data		53 Minimum Vertical Clearance Over Rd:	001.001	60C Underwater Condition:	5 - Fair Condition
113 Scour Critical:	Bridge is Scour Critical; foundations unstable for conditions	54A Under Reference Feature:	99' 99" N- Feature not a highway or railroad.	71 Waterway Adequacy:	7-Better than present minimum criteria.
216A Water Depth:	9.7	54B Minimum Clearance Under:	0' 0"	61 Channel Protection Cond.:	8-Equal to present desirable criteria.
216B Bridge Height:	6.7	*228 Minimum Vertical Clearance		68 Deck Geometry:	4
222 Slope Protection:		228A Actual Odometer Direction:	99'99"	69 UnderClr. Horz/Vert:	N
221A Spur Dike Rear:		228B Actual Opposing Direction:	99'99"	72 Approach Alignment:	8-No reduction of vehicle operating speed required.
221B Spur Dike Fwd:		228C Posted Odometer Direction:	00'00"	62 Culvert:	N - Not Applicable
219 Fender System:	0- None.	228D Posted Opposing Direction:	00'00"	70 Bridge Posting Required:	5. Equal to or above legal loads
220 Dolphin:		55A Lateral Underclearance Reference:	N- Feature not a highway or railroad.	41 Struct Open, Posted, CL:	A. Open, no restriction
223A Culvert Cover:	000	55B Lateral Underclearance on Right:	0.0	* 103 Temporary Structure:	No
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance on Left:	0.0	232 Posted Loads	
223C Number of Barrels:	0	10A Direction of Travel for Max Min:	0	232A H-Modified:	00
223D Barrel Width:	0.0	10B Max Min Vertical Clearance:	99'99"	232B Type3/Tandem:	00
223E Barrel Height:	0.0	245A Deck Thickness Main:	6.0	232C Timber:	00
223F Culvert Length:	0.0	245B Deck Thickness Approach:	0.0	232D HS-Modified:	00
223G Culvert Apron:		246 Overlay Thickness:	1	232E Type 3s2:	00
39 Navigation Vertical Clearance:	0'			232F Piggyback:	00
40 Navigation Horizontal Clearance:	0			253 Notification Date:	02/01/1901
116 Navigation Vertical Clear Closed:	0			258 Federal Notify Date:	02/01/1901

Attachment #8: Meeting Minutes • Meeting Minutes from Concept Team Meeting held on 5/07/2018

PI No 0013739 Camden County SR 25 @ Little Waverly Creek & @ Waverly Creek N of Woodbine Concept Team Meeting Minutes

Project: PI No 0013739 Camden County

SR 25 @ Little Waverly Creek & @ Waverly Creek N of Woodbine

Subject: Concept Team Meeting

Date: May 7, 2018

11:00 A.M.

Location: GDOT District 5 Area 3 Office

128 Public Safety Blvd Brunswick, GA 31525

Attendees: See attached sign-in sheet

Minutes Prepared by Jeff Vickery on May 9, 2018

Introductions and Meeting Purpose

The purpose of this meeting was to conduct the Concept Team Meeting for PI# 0013739 to review the draft limited concept report and discuss proposed alternatives with GDOT staff, utility owners, local agencies, and the design consultant (Barge Design Solutions).

Aghdas Ghazi, GDOT PM, began the meeting and started introductions of all in attendance inperson and by phone. Ms. Ghazi turned the meeting over to Johnny Lee, Barge PM, to go through the draft concept report.

Concept Report Discussion

Mr. Lee proceeded to go through the draft concept report section by section, soliciting any questions or comments from the Concept Team:

• Project Location Map

• Barge will ensure all roads on the Project Location Map adjacent to the project will be labeled.

Planning & Background Data

No comments

Design and Structural

o Barge will remove references to the existing bridges' sufficiency ratings.

Interchanges and Intersections

No comments.

Utility and Property

 Leslie Dubberly requested that Alma Telephone (ATC) be added to the list of utility owners.

Context Sensitive Solutions

No comments

Environmental and Permits

- Josh Earhart presented a general overview and update to the environmental since the draft concept report had been distributed.
 - Environmental impacts are similar to those encountered on PI 0013738.
 - Nine wetlands have been identified. The salt marsh is pretty well defined in this project area.
 - During the survey for protect species, evidence was found of the potential presence of the pitcher plant in the project area, so the project corridor will be surveyed for this species.
 - Archaeology is finishing up survey this week. A property owner mentioned that there may have been an old motel on the property before.
- o Josh Earhart further discussed potential environmental mitigation for the project.
 - For the on-site detour alternative, the anticipated costs for stream mitigation could be approximately \$500,000 to \$1 million. This does not include the costs for wetland or salt marsh mitigation or protected species mitigation.
 - For impacts to the salt marsh, there are no mitigation credits available for this project, so the Permittee Responsible Mitigation (PRM) process will likely need to be followed.
 - In addition, there may be additional mitigation costs needed for U.S. Fish
 Wildlife protected species.

Coordination, Activities, Responsibilities, and Costs

No comments.

• Alternatives Discussion

o Johnny Lee begins the discussion of alternatives and asks the Concept Team if an

- on-site detour is preferred given the increased environmental impacts and costs.
- Jerome Sheffield states that the same constructability concerns from PI 0013738 don't exist on PI 0013739 in terms of space restrictions.
- O Jerome Sheffield states that except for project cost, the on-site detour may make more sense to keep SR 25 open and access for locals, and the off-site detour may increase construction time; however, District 5 Construction agrees that the best solution to minimize environmental impacts and maintain consistency with the locals and PI 0013738 is to do utilize an off-site detour by constructing one bridge at a time to maintain local access.
- Johnny Lee states that the major concern is the environmental process, caused by having an on-site detour, resulting mitigation costs and potential delay of project schedule.
- o Johnny Lee states that Barge will email Aghdas Ghazi our rationale for the preferred off-site detour.
- Keisha Jackson states that the Woodbine Postmaster should be included in local coordination efforts.

Recap Action Items

GDOT

- Will provide updated utilities cost to Barge.
- Will provide updated ROW cost to Barge.
- Will provide original early coordination detour map to Barge

Barge

 Prepare revised project concept report according to comments and discussion from the Concept Team Meeting and submit to GDOT.

EPEI

Complete remaining environmental surveys and salt marsh delineation.

These minutes are based upon the notes and recollection of the author. Any additions or corrections should be brought to Barge Design Solutions' immediate attention.

GEORGIA DEPARTMENT OF TRANSPORTATION MEETING/CONFERENCE RECORD OF ATTENDEES

PURPOSE: PI#0013739 Concept Team Meeting If you are a GDOT employee, and have a standard email address of the form:							
LOCATION: Brunswick	Safety Blvd. firstn please o	ame.lastname@dot.state.ga.us mit.					
DATE:5/7/2018 TIME:11:00 AM							
MODERATOR: Aghdas Ghazi							
NAME	ORGANIZATION	PHONE NO.	E-MAIL ADDRESS				
1. Aghdus Chazi	OPD		Achazia dot ga. 900				
2. JEHT VICKERY	BARGE DESTGN SOW	13045 678-515-9415	JEFF. VICKERY @ BARGEDESTEN. C				
3. Brandon M. Daniel	GDOT Dist. Const.	(912)424-9385	bradaniel@dot.ga.gov				
4. NOSH CARMANT	EPEL	770-333-9484	ich zhanto odwerds-prtmme com				
5. Cindy Martyas	Waterhouse	678.939.3916	Conatyas@ waterhouse. enzineeri.				
6. Joe McGrew	Waterhouse	404 368 4077	Jucque Watchors . enginearing				
7. leglie Dildrerty	COST DE DI DI	912-530-4404	lhulderly Chit. on gov				
8. Byron Cowart	GOOT-DS Planning	(912) 530-4453	bround @ dot.ga.gov				
O. Zachany Bailey 10. Stacy Treat	ATO BOILD	912 (33 7131	Zballey@ Lot.ga.gov				
10. Stacy Treat 11. Korey Murray	GDOT AREA CONST.	(2)27 422 - 3124	Street a akenetworks . net				
12. TETROME SALPFIELD	GDOT DIST. CONST.		Murraykoedot.ga.gov				
13. Shany lee	Barac Design	618-515-9431	blum, le abuschet				
14. CAROL KALAFUT (PHONE)		404-631-1882 (KALAFUT @ DOT. GA. GOV				
15. MICHAEL LEWIS (PHONE)			EWIS @ NOT. GA. GOV				
16. KEISHA JACKSON (PHON			KEIJACKSON @ DOT. GA. GOV				
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